

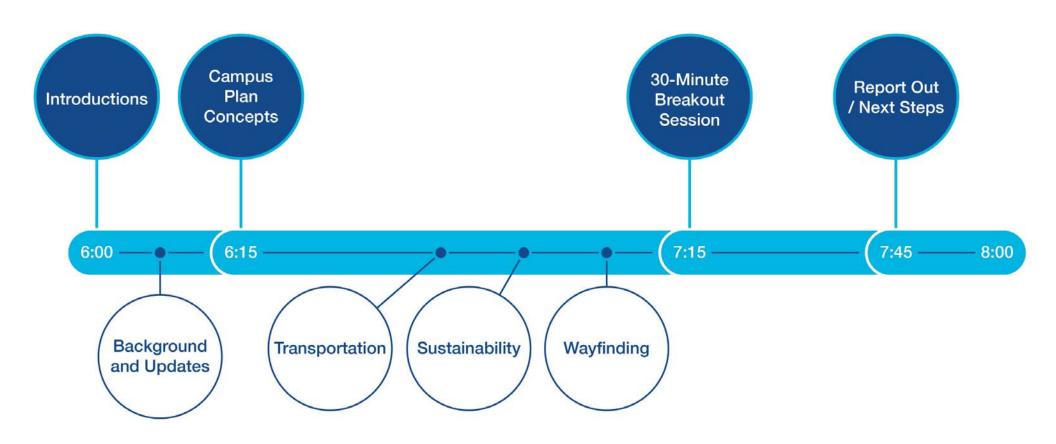






Central Hill Campus – Community Meeting #2

Tonight's Agenda



Campus Plan Committee

- Kristen Stelljes, Somerville Community Preservation Act Manager
- Bryan Bishop, Director of Veterans
- Glenn Ferdman, Director, Library
- Robert King, Director of Capital Projects and Planning
- Emily Monea, Director, SomerStat
- George Proakis, Director, Planning and Zoning
- Brad Rawson, Director, Transportation and Infrastructure
- Mike Tremblay, Senior Transportation Planner
- Oliver Sellers-Garcia, Director, Office of Sustainability and Environment
- Melissa Woods, Senior Long Range Planner

Planning Team

SMMA

- Alex Pitkin, Senior Vice President
- Lorraine Finnegan, Principal
- Samantha Farrell, Landscape Architect
- Elizabeth Galloway, Sustainable Designer
- Laura Monies, Landscape Architect/Planner
- Erin Prestileo, Civil Engineer
- Ali Ucci, Graphic Designer
- Jack Dombrowski, Graphic Designer
- Marisa Fryer, Site Designer

Building Conservation Associates

Lisa Howe, Director of BCA New England

Toole Design Group

- Ashley Haire, Project Engineer
- Stephanie Weyer, Landscape Designer

Project Timeline

- Community Meeting #1
- Parking Study Meetings 1-3
- Memorials Commission Meeting
- Community Meeting #2
- Parking Study Meeting #4
- Community Meeting #3
- Campus Planning Study Complete

May 31, 2018
Summer, 2018
June 20, 2018
Sept 25, 2018
Sept 27, 2018
Oct 18, 2018

Dec 28, 2018

Background and SHS Project Updates

SHS Project Update
Brief Site History & Analysis
Memorials & Monuments

New SHS Highland Avenue Perspectives





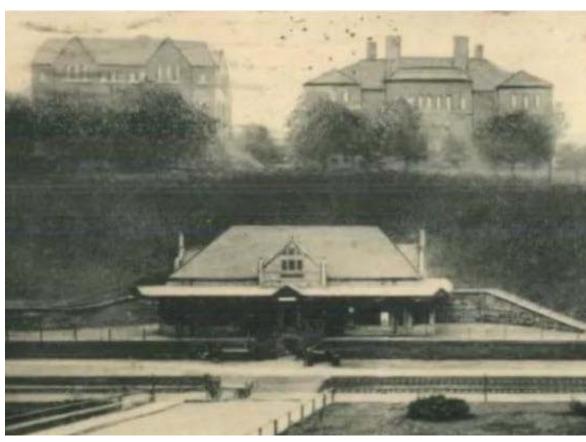


Medford Street Perspective

Uniquely Central Hill

- GLX access
- Creation of New Open Space
- Balance of Neighborhood & Civic uses





New SHS Medford Street Perspective



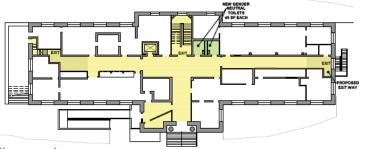






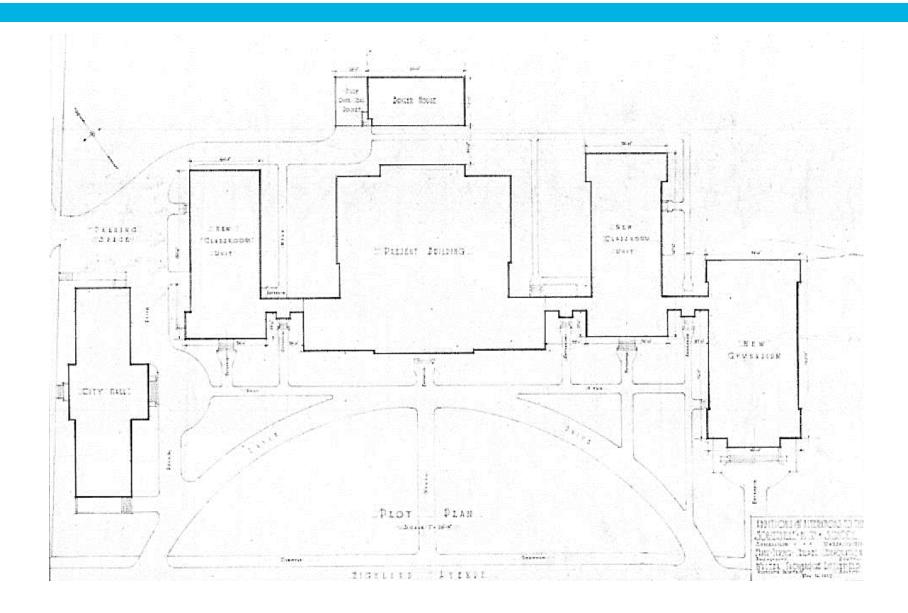








Existing First Floor plan













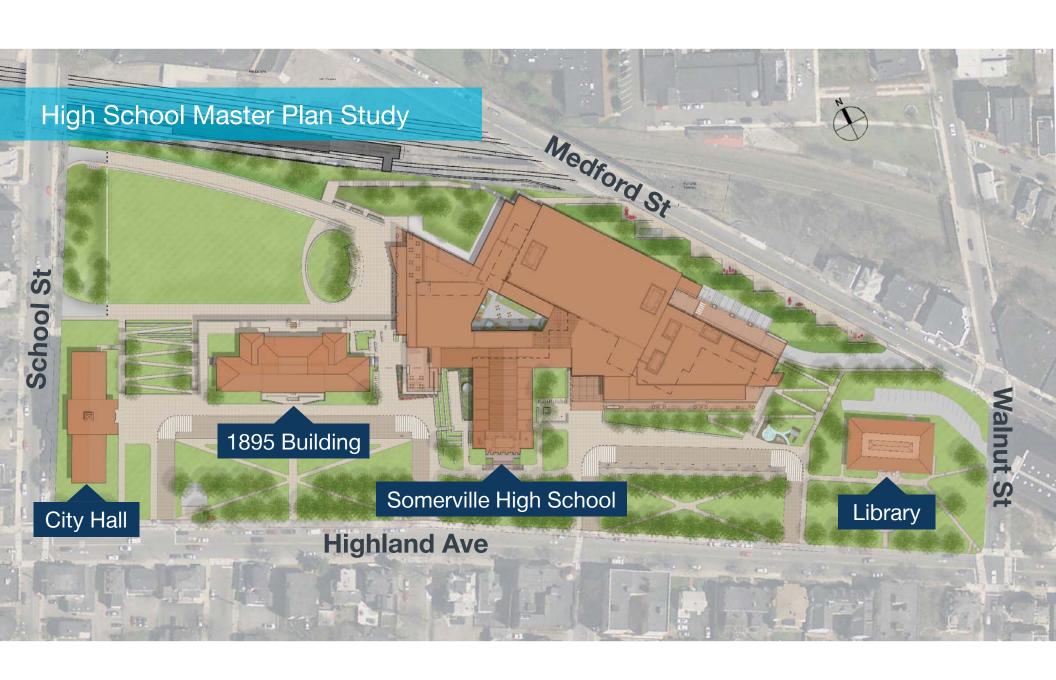


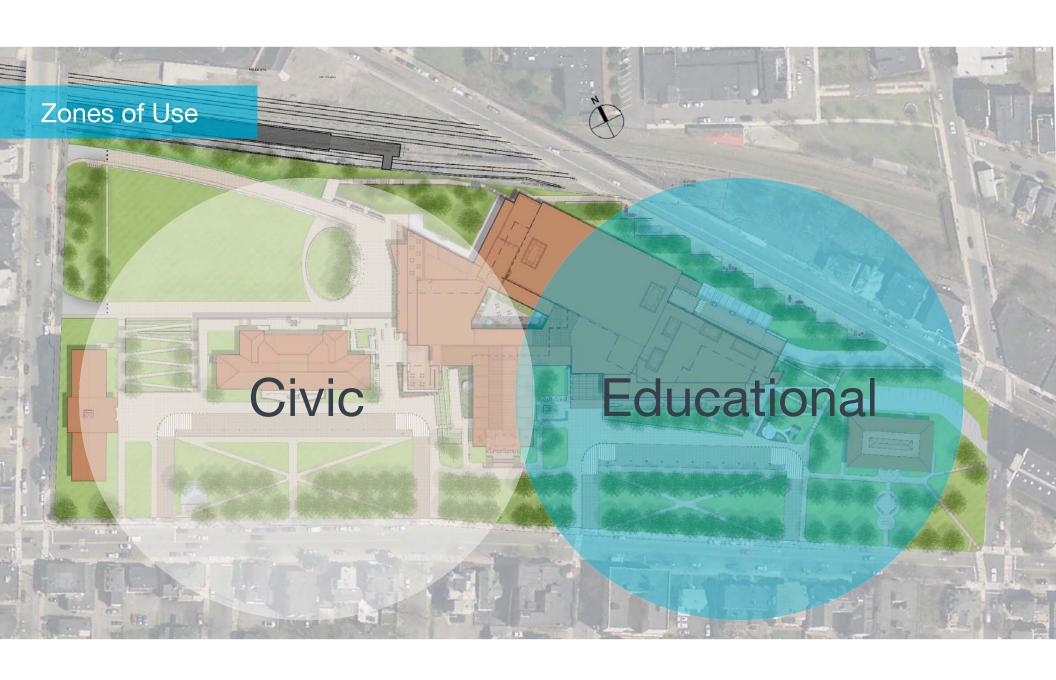


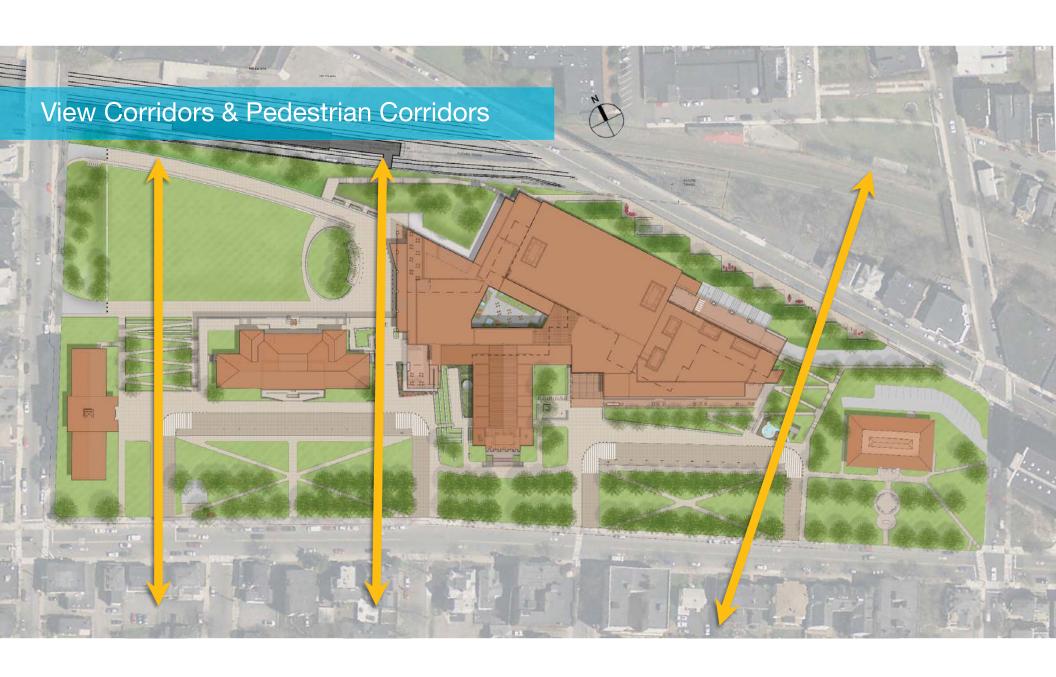
Example Monument Scan

WWI Monument located in Union Square





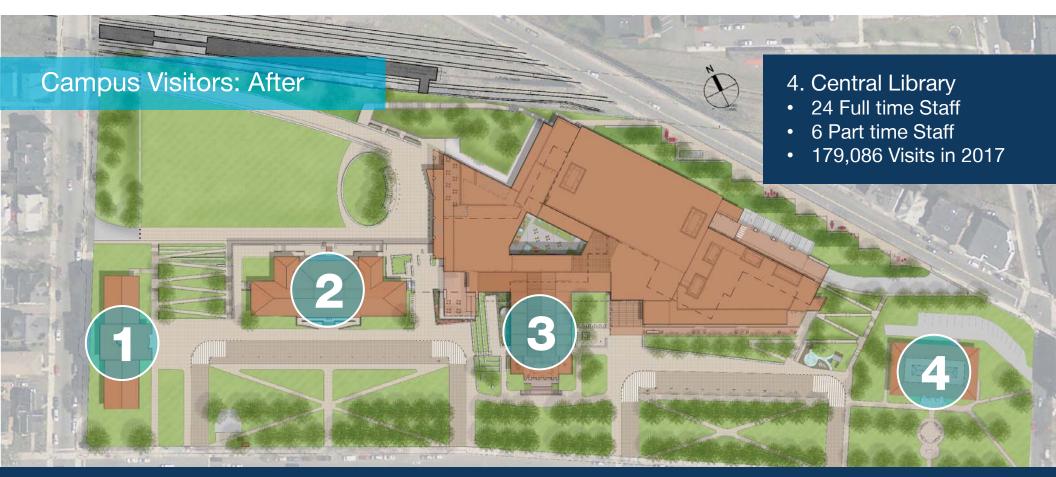






- 1. City Hall
- 127 Full time Staff
- · 6 Part time Staff
- 14 Offices / Agencies
- 2. Plaza
- 5+ Annual Events
- 500 to 1,500 attendees
- 3 to 4 Annual Special Rallies
- 100 to 3,000 attendees

- 3. Somerville High School
- 234 Full time Staff
- 1300 Students
- Open 7am-10pm Weekdays



- 1. City Hall
- 127 Full time Staff
- 6 Part time Staff
- 14 Offices / Agencies
- 2. Municipal Offices
- Full time Staff TBD
- Office's Agencies TBD

- 3. Somerville High School
- 285 Full time Staff
- 1600 Students
- Open 24/7/365



City Hall:

1. Agencies

1895 Options:

2. Municipal Agencies

High School:

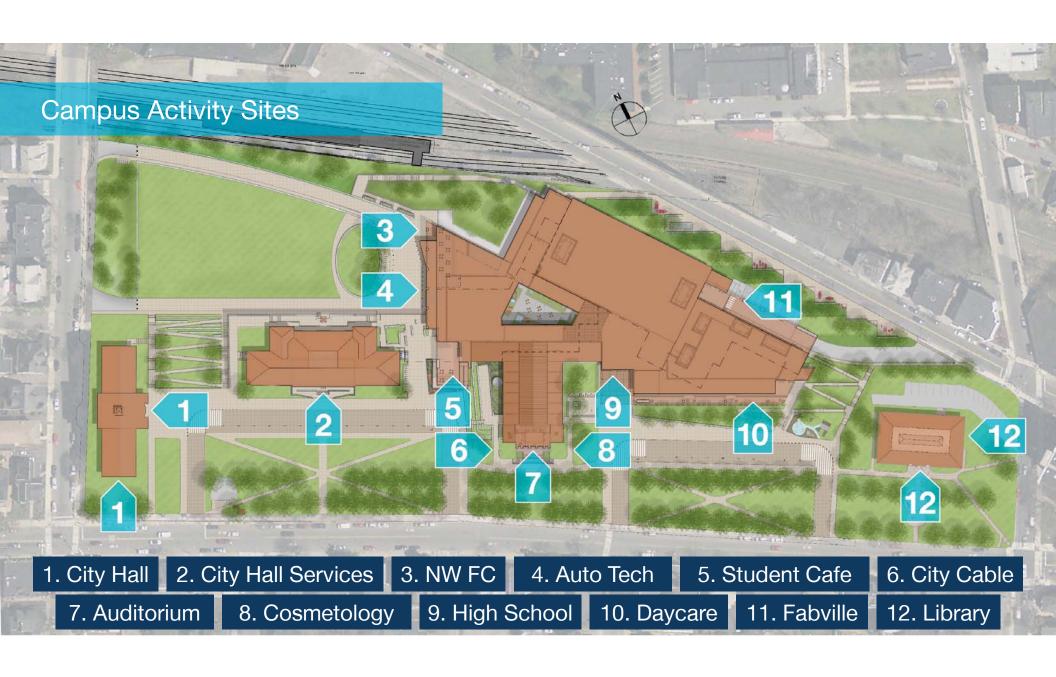
3. Highlander Cafe

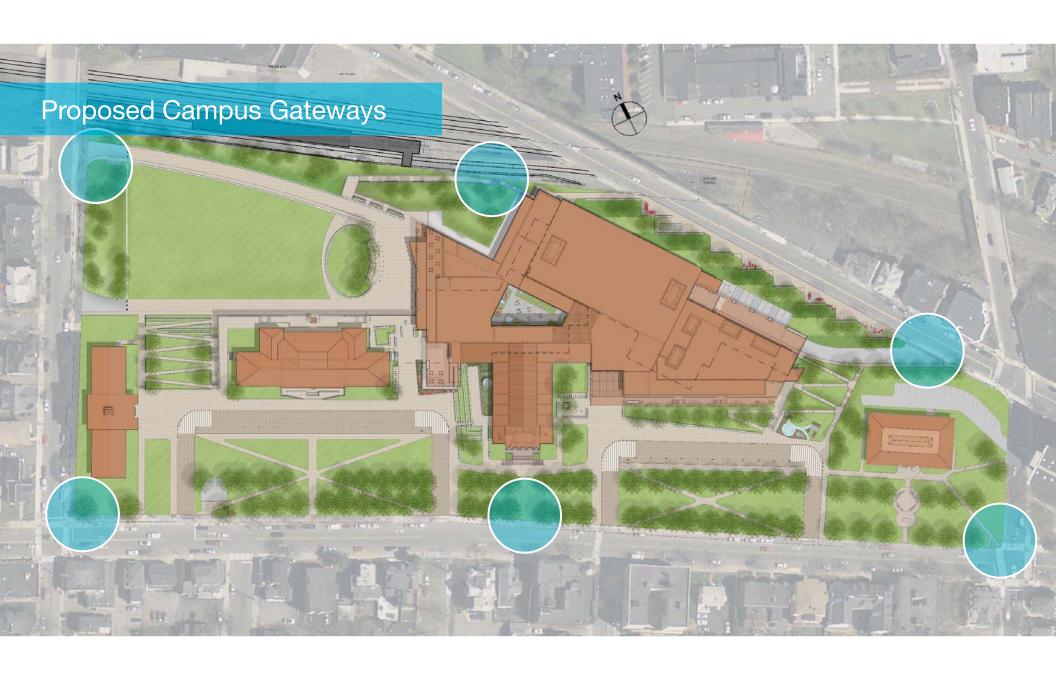
4. Auditorium

5. SCTV & CVTE

6. Fabville

7. Vocational Progran





Campus Plan Concepts

Planning Overview

Concept 1: Allée

Concept 2: Promenade

Concept 3: Central Hill Concourse

Campus Planning Vision

Create an inviting and comprehensive campus plan that embodies the values of the City of Somerville:

- Accessibility
- Inclusion
- Environmental Stewardship
- Respect for Local History

Campus Planning Goals & Objectives

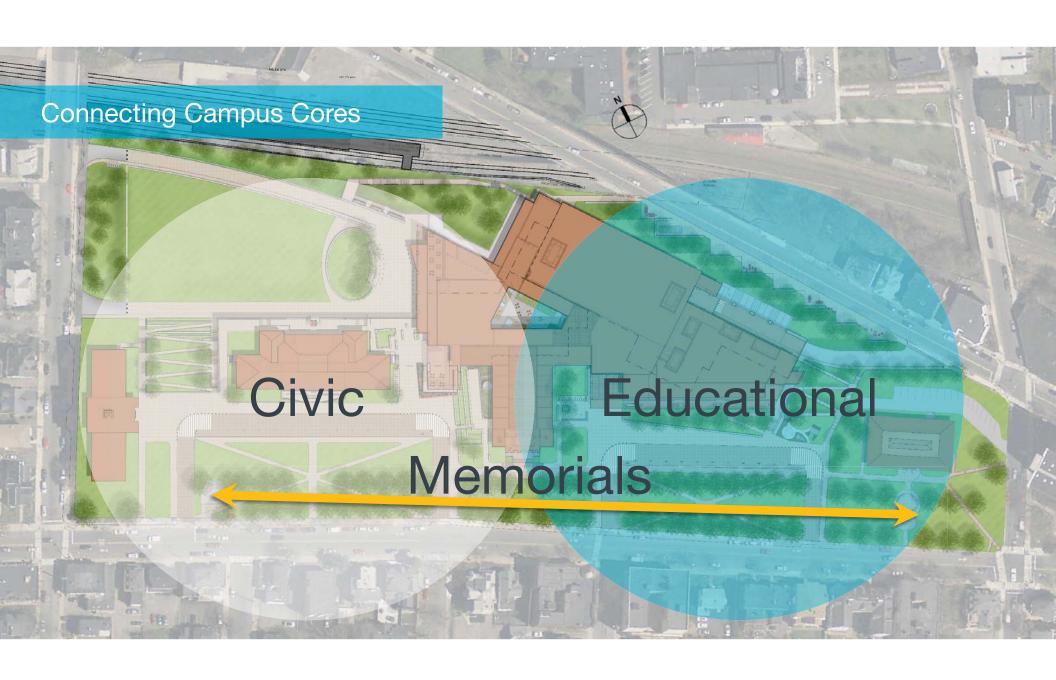
- Achieve historically appropriate, unified sense of place
- Respectfully incorporate war memorials
- Integrate the Central Library into the civic experience of the campus
- Improve accessibility within the campus
- Achieve Carbon Net Zero or Net Zero Energy Ready (NZE) campus
- Systemically mitigate storm water impacts
- Utilize landscape and urban design elements and wayfinding to enhance user experience
- Provide meaningful public process

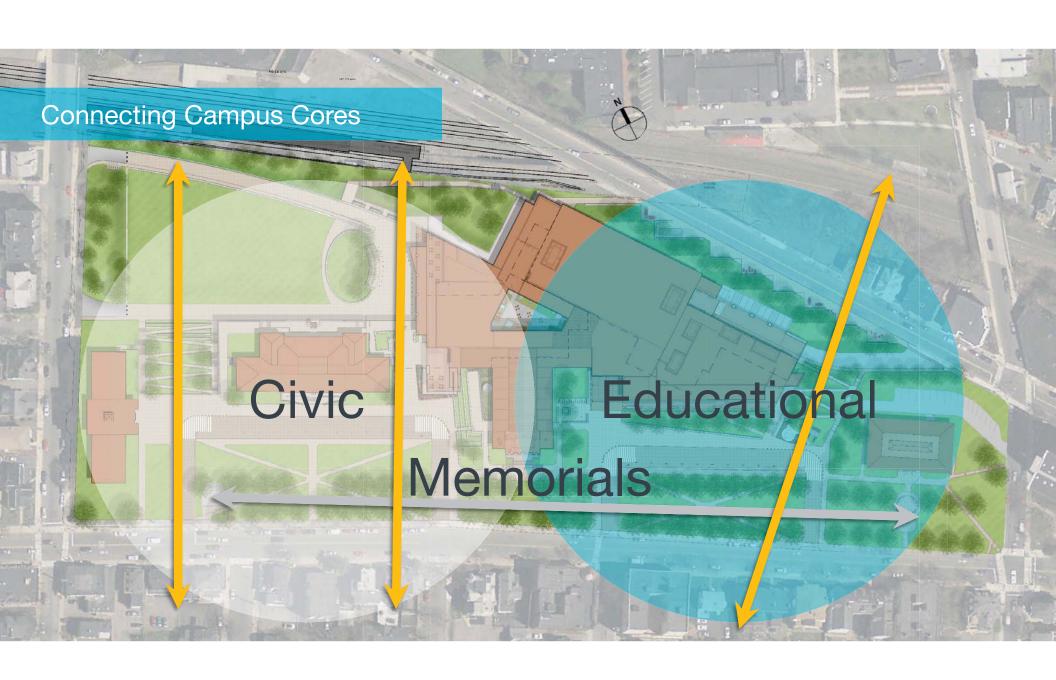
Goal of Public Process

- Share with the public campus plan design concepts
- Gather and incorporate feedback

Planning Design Parameters

- Somerville High School Master Plan and project scope as a starting point
- GLX Gilman Station and Community Path
- Parking and Traffic Studies
- Building Use Space Plans for City Hall and 1895 Building
- Re-creation of Central Hill playground
- Respectful and chronological incorporation of war memorials







Universal Program & Design Opportunities



Accessibility to City Hall and 1895 and across campus





Universal Program & Design Opportunities



Presence of City Hall, dedicated pedestrian plaza, gateway at School and Highland

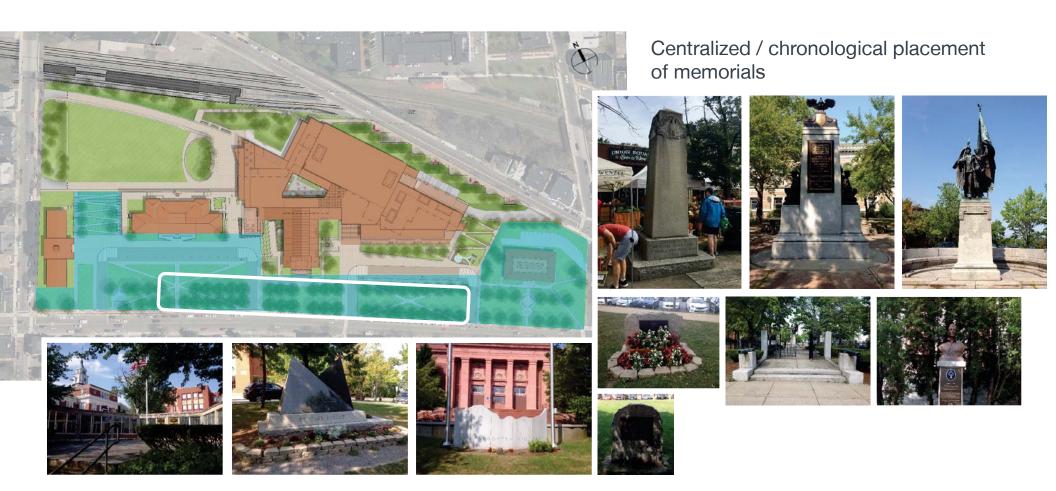








Universal Program & Design Opportunities





Library: usable green space, sloped edge, adjacent play space

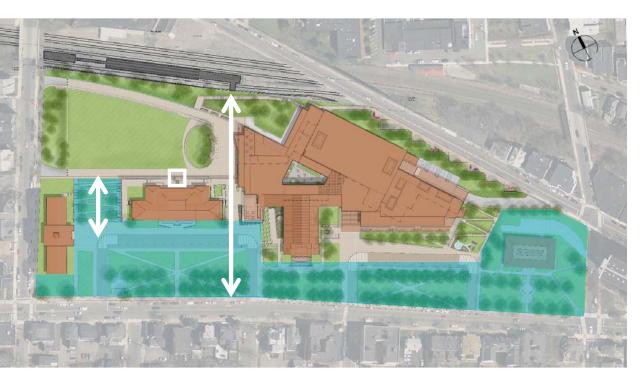






Library: potential expansion, campus gateway at Walnut and Medford





Accessible route to Gilman Station and on the hill west of 1895







Activate adjacent space at community path and re-create a sledding hill

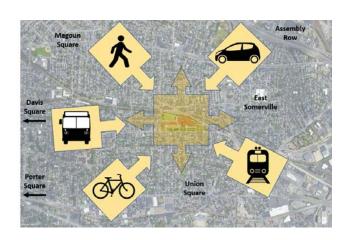








Multi-Modal Transit

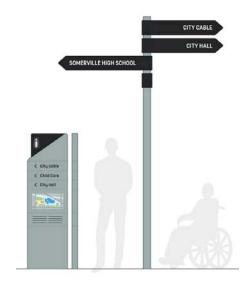


Sustainability and Storm water Mitigation





Environmental Graphics and Campus Wayfinding



Concept 1: Allée

- A walkway lined with trees or tall shrubs
- Characterized as formal, traditional, stoic, and passive
- SHS Master Plan as basis of design







Concept 1: Allée Highlights

- Memorials centrally located in green space of the allée
- Honor roll stays in place, renovate and incorporate access
- Vehicular access remains, no dedicated pedestrian plaza
- Parking maintains end of SHS project numbers
- Maintains existing trees along Highland
- Vegetated buffer at curb edge to function as a reinforcement of safe crossing and storm water management



Concept 1: Allée







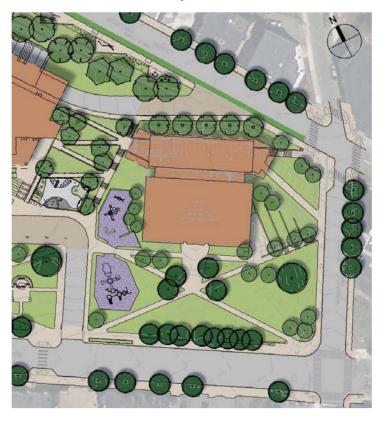






Concept 1: Allée

Central Library













Concept 2: Promenade

- A wide path for walking; a leisurely walk or ride especially in a public place for pleasure or display
- Highland Ave. walkway becomes
 enhanced pedestrian / cyclist oriented
 zone as a setting for the memorials to
 engage with the most active and visually
 prominent space of the campus





Concept 2: Promenade Highlights

- Doubles width of existing walkway to 20 ft to accommodate shared bicycle / pedestrian zone
- Memorials located directly along Highland for visual prominence with vegetated buffers for respectful visitation
- Honor Roll moves to align with 1895 Building as pedestrian gateway to the civic core
- Vehicular access realigns with Prescott
- Parking numbers slightly reduced from SHS project numbers that affords opportunity for dedicated plaza and visual prominence to City Hall
- Removes existing trees along Highland and strategically replaces trees to emphasize visual corridors and renew streetscape plantings
- Vegetated buffer along walkway to function as aesthetic separation for memorials and storm water management features



Concept 2: Promenade

Section view of Highland Ave.













Concept 2: Promenade

City Hall Plaza







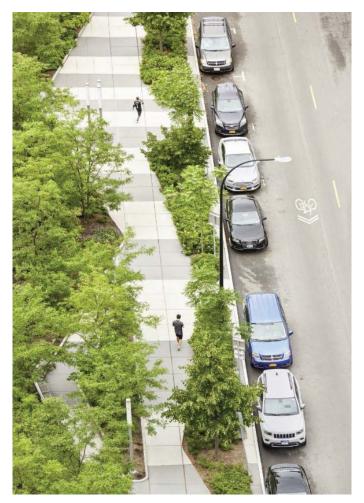






Concept 3: Central Hill Concourse

- A coming together; a gathering; a large open area or hall where crowds gather
- City Hall Plaza and Library Green bookend Central Hill campus as large open areas
- Highland Ave streetscape connects the primary open spaces in a coming together of memorials, existing and new landscape elements, and storm water features





Concept 3: Central Hill Concourse Highlights

- Memorials integrated into Highland streetscape
- Honor Roll becomes a landmark / gateway emphasizing the War Memorial Building
- Vehicular access realigns with Prescott
- Parking numbers slightly reduced from SHS project numbers that affords opportunity for dedicated plaza and visual prominence to City Hall
- Maintains majority of existing trees along Highland and strategically replaces trees to emphasize visual corridors and renew streetscape plantings
- Vegetated buffer along walkway to function as aesthetic separation for memorials and storm water management features



Concept 3: Central Hill Concourse











Concept 3: Central Hill Concourse

Honor Roll as Campus Gateway at War Memorial Building









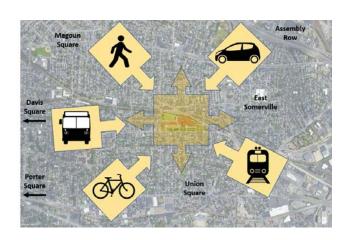






Transportation
Sustainability
Wayfinding

Multi-Modal Transit

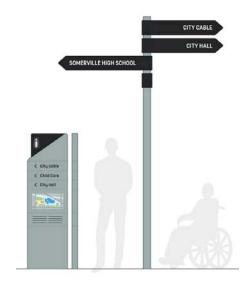


Sustainability and Storm water Mitigation





Environmental Graphics and Campus Wayfinding



Transportation

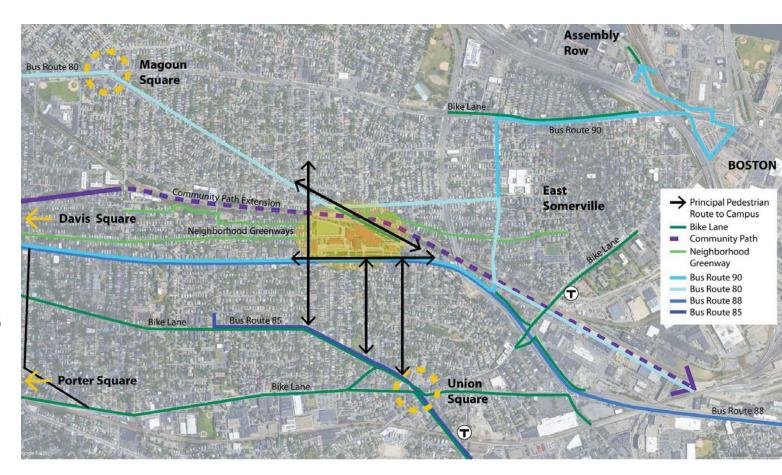
Transportation

Modes

- Walking
- Biking
- Driving
- Transit

Topics

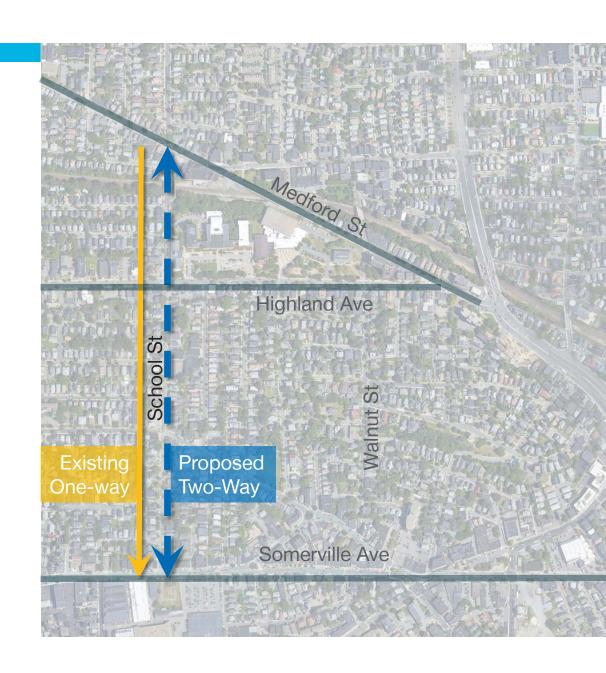
- Site access
- Traffic calming
- Grade challenges
- Community path
- Future street traffic patterns
- MBTA bus stops



Driving

City conducting a parking analysis and has a meeting scheduled to discuss parking

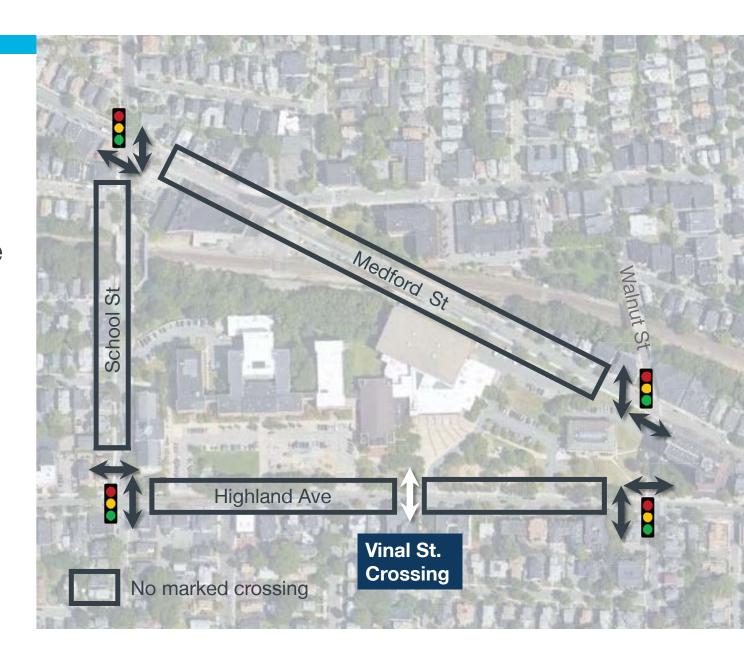
School Street to change from one-way to two-way from Medford St to Somerville Ave



Driving

Considerations

- Where people are coming from and their destinations
- Existing and needed safe crossings
- Signalization





Proposed New Crossing



Suggested Crossing Improvements



Walking Proposed Madison & School Street Crossing



Raised Crosswalk

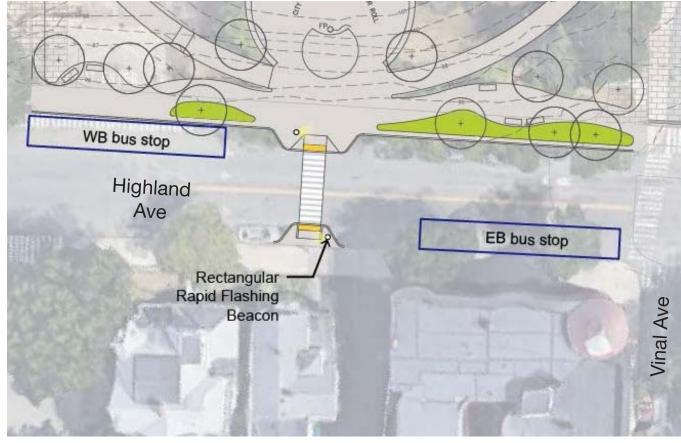


Walking

War Memorial Proposed Clearing



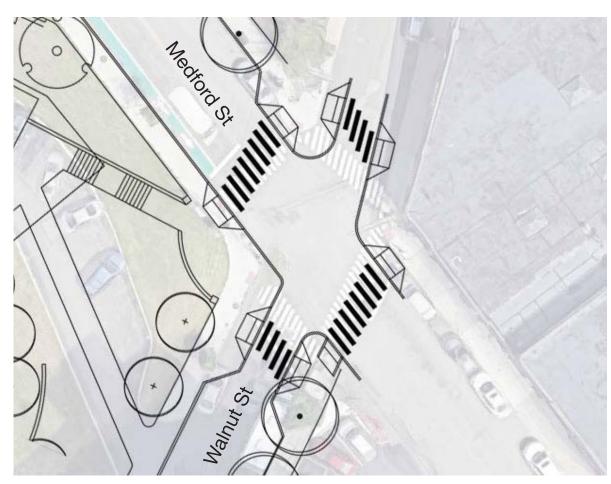
Rectangular Rapid Flashing Beacon



Walking

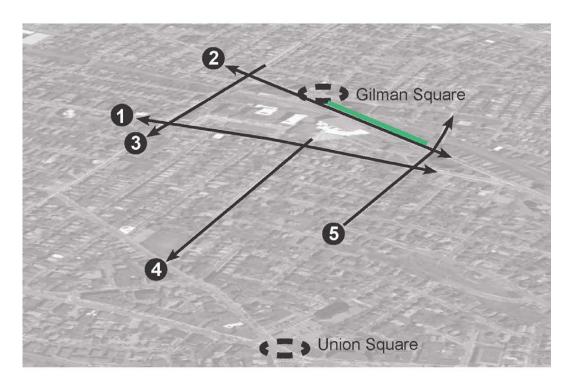
Intersection Improvement: Medford St & Walnut Street

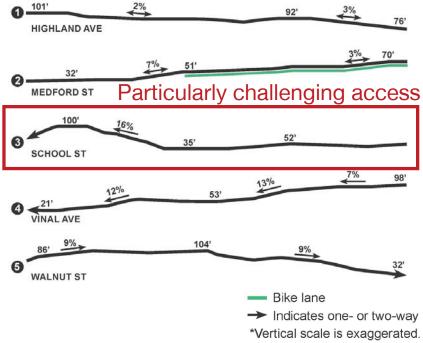
- Extend curb to shorten crossing time for pedestrians and widen sidewalk
- Provide directional crossings rather than existing apex
- Improve crossing signals



Biking

Significant Grade Challenge

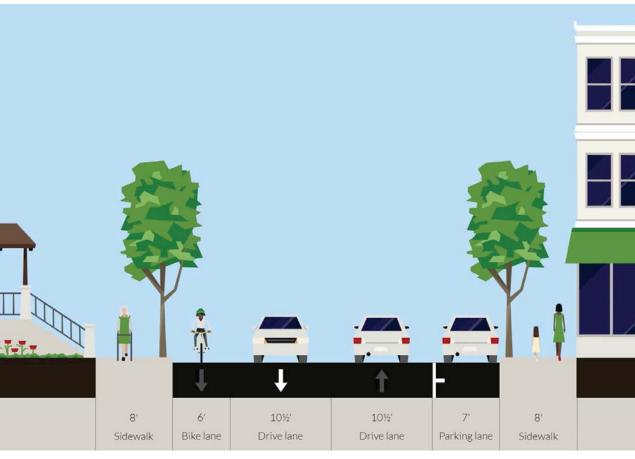


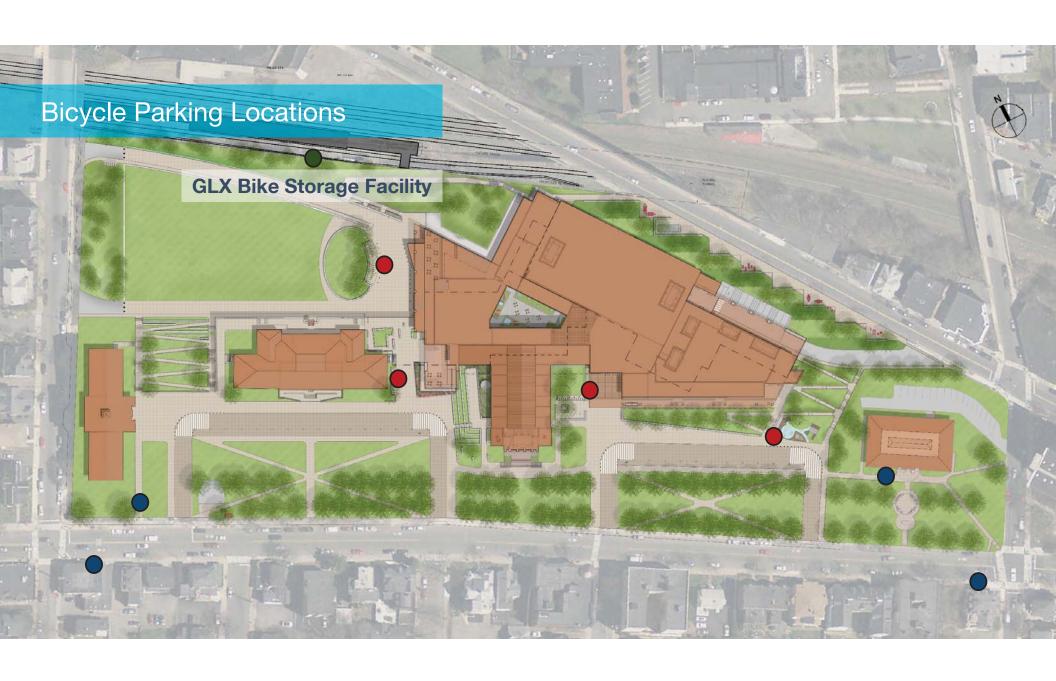


Biking

School St Proposed Bike Lane







Transit

Green Line Extension (GLX)



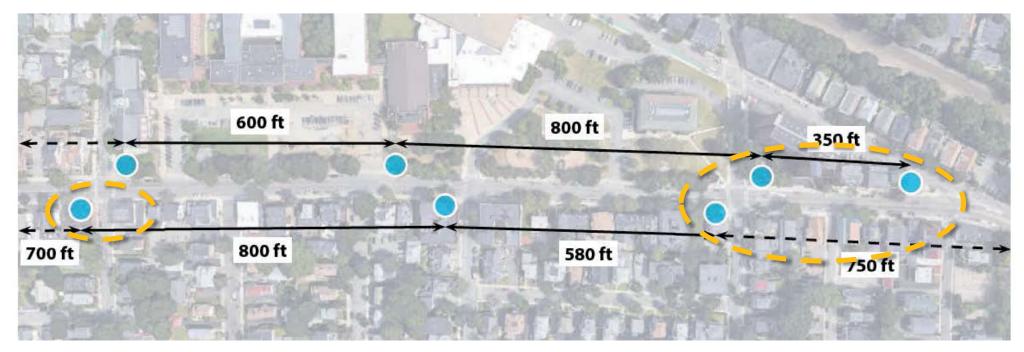
Gilman Square Station Ground Breaking

- Pedestrian crossing to be constructed at Gilman Sq
- GLX to replace bus route 80



Transit

Bus Stops



Looking at potential changes to bus stops to reduce intersection crossing for pedestrians and provide operational improvements

City of **Somerville**

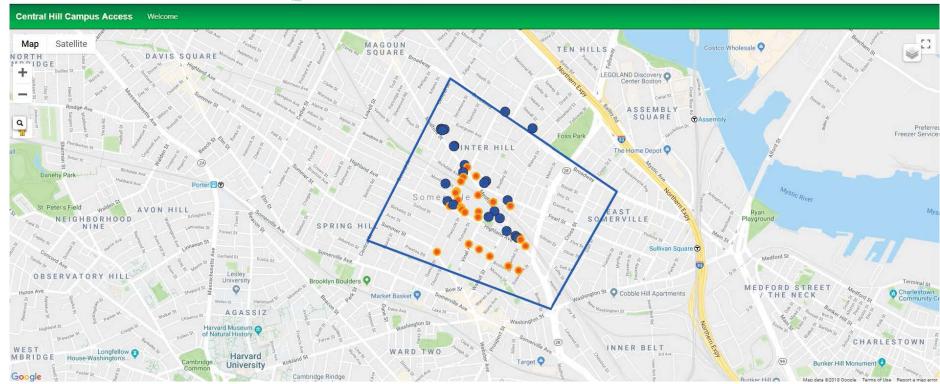
Central Hill Campus Access Planning

add places that you currently go within the study area by selecting "Points" on the menu bar and selecting "Destinations." Once you place a point, you'll be asked about the type of destination and how you usually reach it.

Choose locations where you have concerns by selecting "Points" on the menu bar and selecting "Area of Concern," When you place a point, you'll be asked about why you have concerns about this area.



Click the layers icon below to toggle on/off input from other people

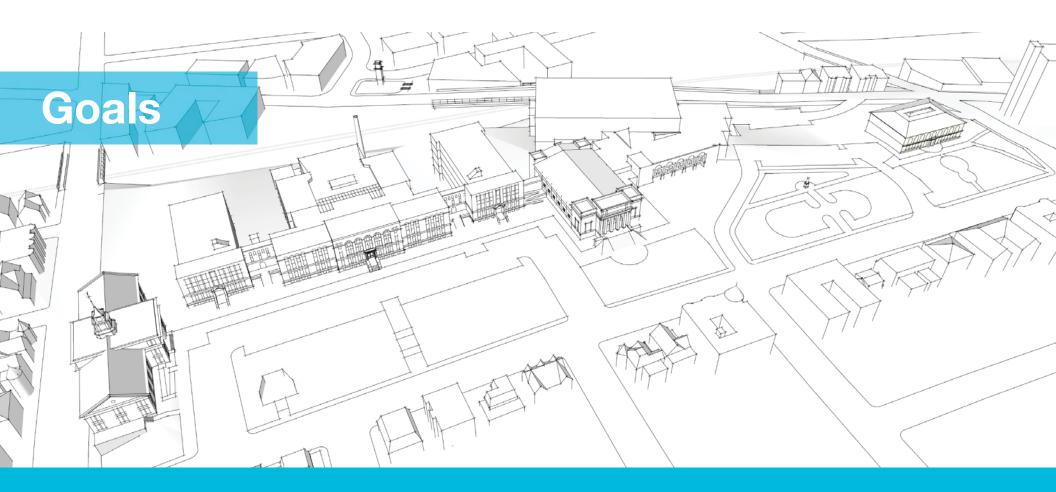


Contribute to the Central Hill Campus Wikimap

https://www.somervillema.gov/departments/central-hill-plan

Sustainability

Building Energy
Renewable Energy
Stormwater Use & Control

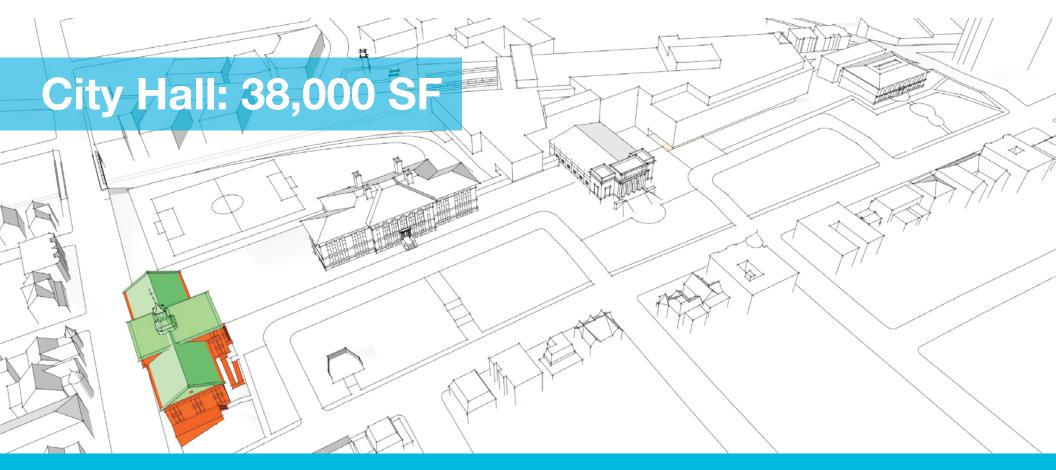


Create a carbon neutral campus

- Minimize energy needs
- Provide energy from renewable sources

Reduce stormwater runoff

- Reduce impervious cover
- Capture water for reuse on-site
- Promote infiltration



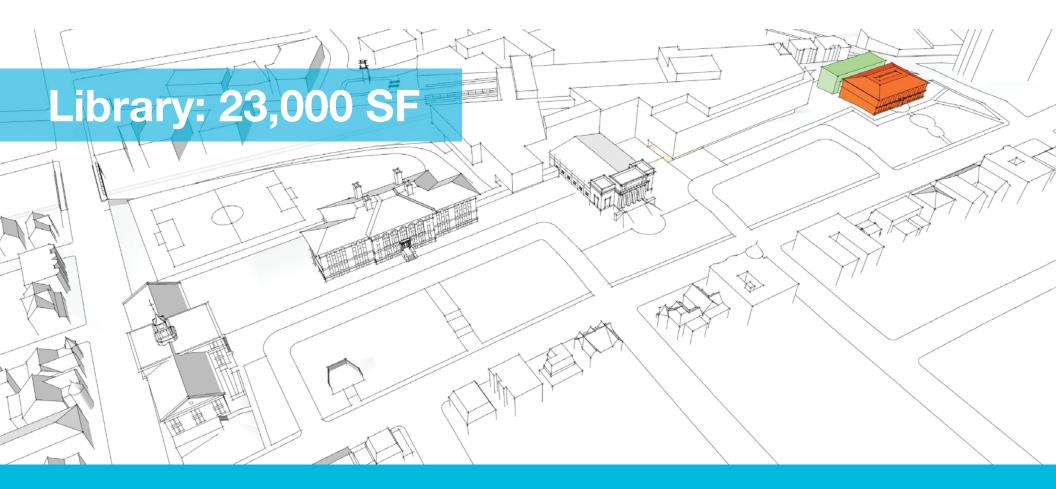
 Existing Energy Use Intensity (EUI): 95 kBtu/sf-yr

- Average office building energy use:
 Boston Energy Reporting Disclosure Ordinance (BERDO) EUI (2016):74 kBtu/sf-yr
- Commercial Building Energy Consumption Survey (CBECS) EUI (2003): 105 kBtu/sf-yr



• Existing Energy Use Intensity (EUI): Unknown (Currently part of High School)

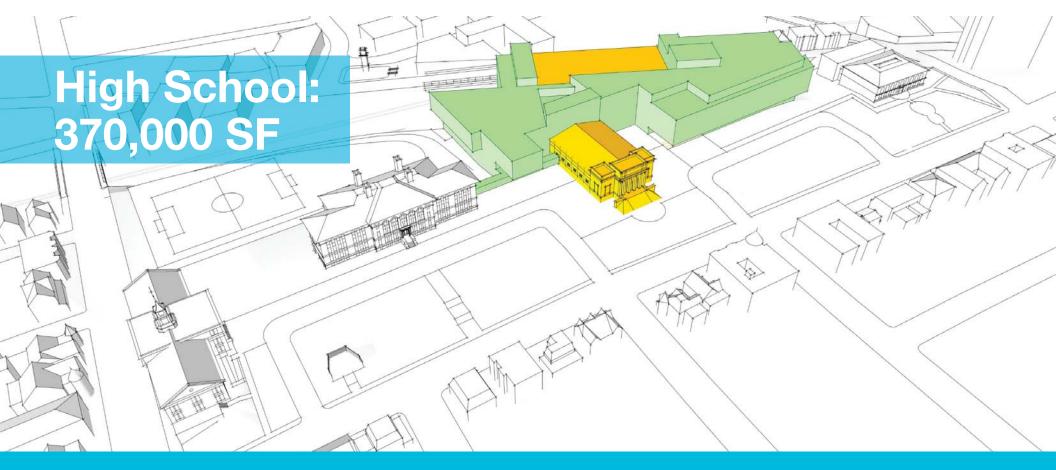
- Average office building energy use:
 Boston Energy Reporting Disclosure Ordinance (BERDO) EUI (2016):74 kBtu/sf-yr
- Commercial Building Energy Consumption Survey (CBECS) EUI (2003): 105 kBtu/sf-yr



Existing EUI: 72 kBtu/sf-yr

Average library energy use

- CBECS (2003): 123 kBtu/sf-yr
- BERDO (2016): 92 kBtu/sf-yr



Existing EUI: 58 kBtu/sf-yr Modeled EUI: 40 kBtu/sf-yr

- Highly insulated enclosure
- Double glazed windows

- LED lighting and controls
- Decoupled ventilation from heating and cooling

EUI Targets

New Construction: 25 kBtu/sf-yr

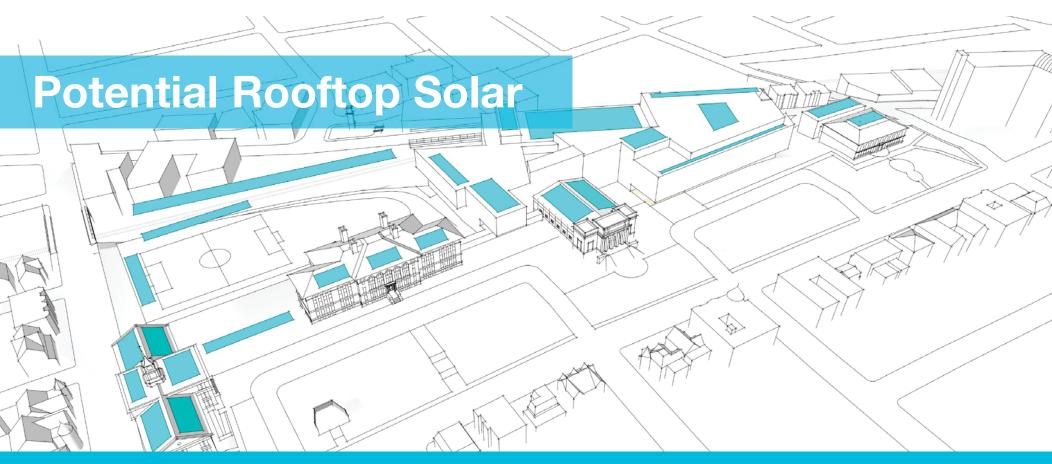
Renovation: 35 kBtu/sf-yr

- Insulated walls and roof
- New windows (triple glazed)
- LED lighting and controls (interior and exterior)
- Decoupled ventilation from heating and cooling systems
- All electric HVAC systems

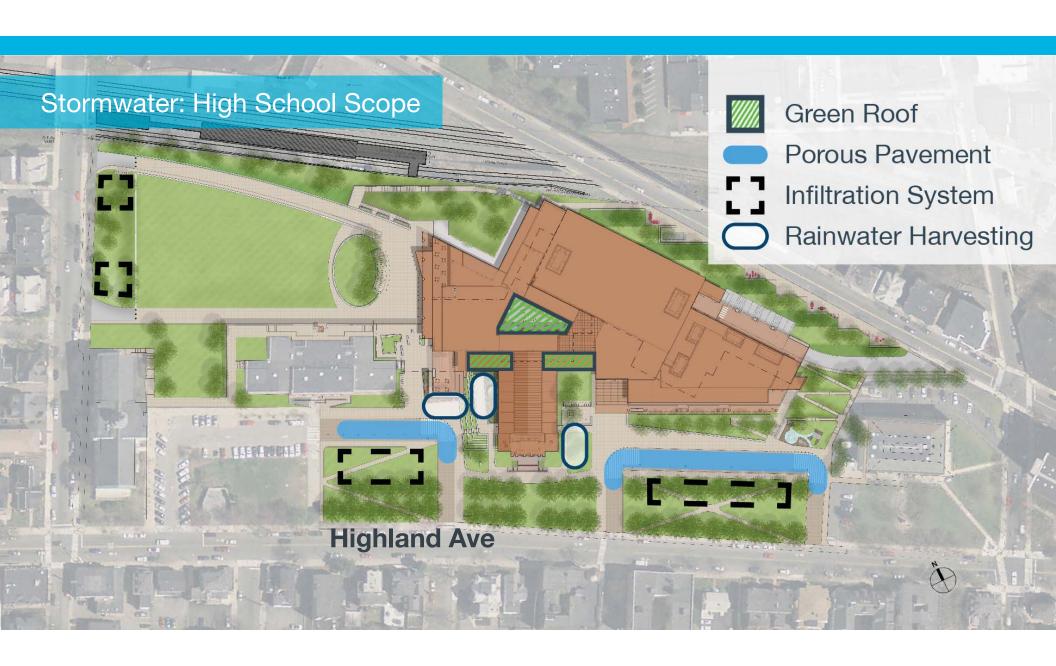
Renewable Energy

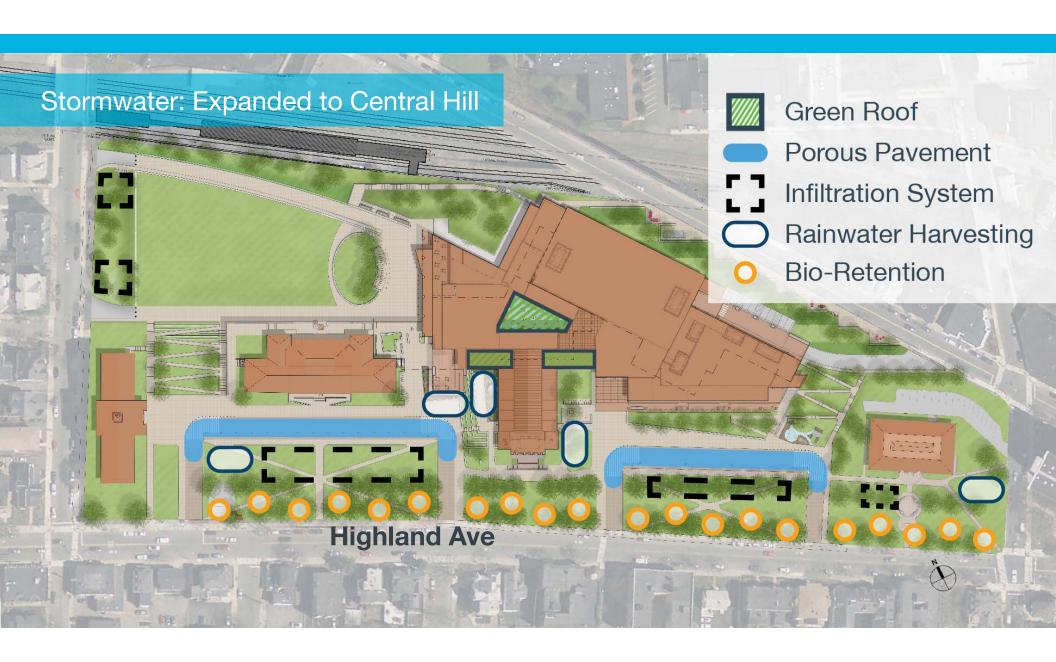
Renewable energy options considered during this study:

- Biomass
- Anaerobic Digestion
- Combined Heat and Power
- Ground Source Heat Pumps (geothermal)
- Wind turbine
- Solar Photovoltaic (electricity)
- Solar Thermal (hot water)



- Rooftop solar is the best viable option
- If all of these areas were covered with photovoltaic panels, it would provide enough energy to make City Hall a net zero energy building.
- Achieving a carbon neutral campus will require purchasing renewable energy from the grid.







95% Storm – 1.5"/24 hours

Existing Post High School Contral Hill Project

Total Runoff Volume (cf) 27,900 13,500 10,200

Peak Flow Rate (cfs) 13.1 5.0 3.5

Green Roof
Porous Pavement
Infiltration System
Rainwater Harvesting
Bio-Retention





Wayfinding and Signage

Unifying Concepts
Signage Types & Levels
Location of Signage
Aligning with Current High School Design

Signage and Wayfinding

Unify the campus, creating sense of place





Design and materials take cues from site environment and complement.

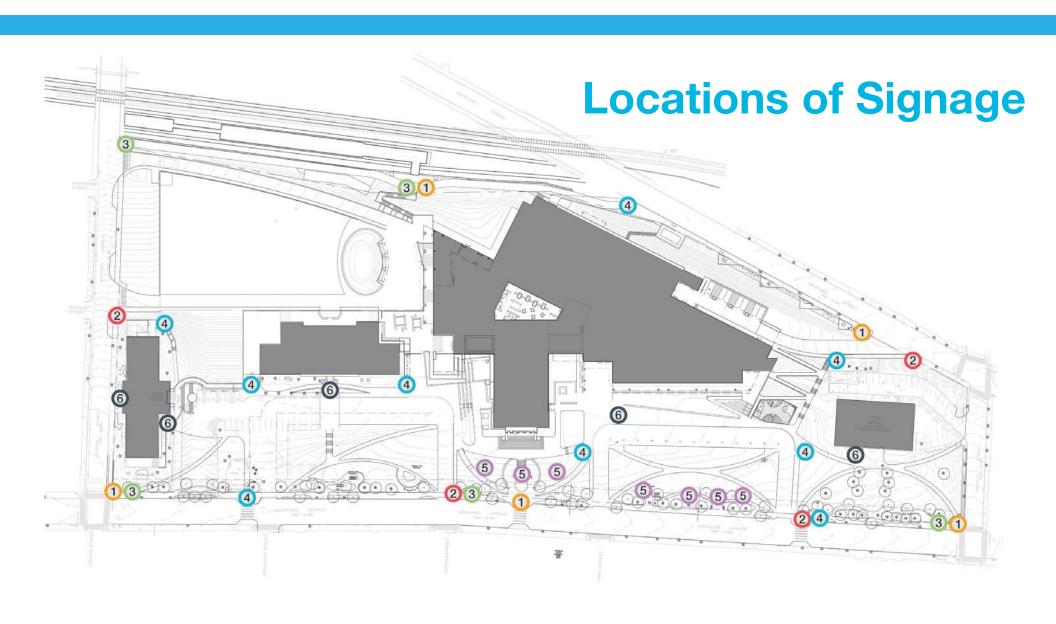
Graphics inform visitors of the campus.





Signage Levels

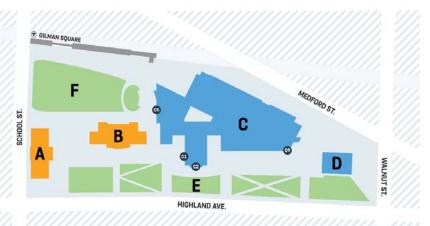
	Audience	Sign Type
Level 1	Everyone	Gateway or Campus Markers
Level 2	Vehicles	Roadside Pylons
Level 3	Unfamiliar Pedestrians	Map & Directory
Level 4	Regular Pedestrians	Individual Destination Marker
Level 5	Monument Patrons	Informational Placard
Level 6	Everyone	Building Marker



Campus Directory

Providing directions at multiple levels from the civic and educational commons, to individual city & school departments and their respective entrances.

Welcome to Somerville's Central Hill Campus



C6. Cambridge Health Alliance

C7. Somerville Childcare

C8. Fabrication Lab

C9. Highlander Cafe

C10. Automation Dept.

Civic Buildings

A - City Hall

Office of the Mayor Communications Elections Personnel Payroll Purchasing

Grants City Clerk Assessing Treasury Auditing

OSPCD

Housing

School Department - Central

B - City Hall Annex

Health & Human Services Information technology

Personnel

C - Somerville High School

Learning Buildings

C1. City Cable C2. Community Entrance

C3. Auditorium C4. Cosmetology Dept. C5. Next Wave Full Circle

D - Central Library

Park Areas

E - Monument Walk

World War I Monument World War II Monument Vietnam War Monument 2

F - Recreational Field

Break-out Session & Discussion

Feedback

To offer feedback or thoughts please contact: centralhill@somervillema.gov







Project Timeline

- Community Meeting #1
- Parking Study Meetings 1-3
- Memorials Commission Meeting
- Community Meeting #2
- Parking Study Meeting #4
- Community Meeting #3
- Campus Planning Study Complete

May 31, 2018
Summer, 2018
June 20, 2018
Sept 25, 2018
Sept 27, 2018
Oct 18, 2018

Dec 28, 2018

Next Steps

- Document feedback from tonight's session
- Review with Campus Plan Committee
- Committee to select a preferred Option
- Design team to develop potential schedule and costs for implementation (may be phased over several years)
- Complete study by end of year

Thank you

For more information: www.somervillma.gov/highschool/www.somervillema.gov/centralhillplan/

Somerville High School Construction Camera: https://app.oxblue.com/open/Suffolk/somervillehighschool